MITSUBISHI ELECTRIC

AIR CONDITIONING SYSTEMS

Changes for the Better

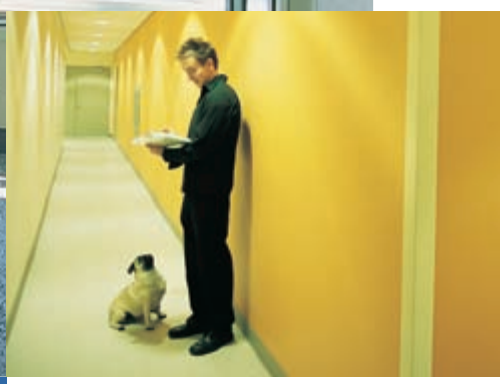
Mitsubishi Electric Quality

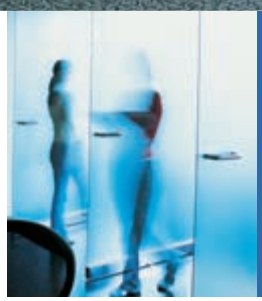
Natural comfort for everybody

Mr.SLIM

R410A

Comfort Takes on New Meaning with the Power of Technology





Advanced technology makes Power Inverter Mr. SLIM the premier choice for improving comfort. It provides energy saving of up to 70% annually when compared to non-inverter models! Operating noise has also been significantly reduced.

NEW REFRIGERANT

R410A

Our air conditioners use R410A, HFC refrigerant.

Mr.SLIM

Advanced Power Inverter

Thanks to the new Power Inverter system, a large reduction in power consumption is now possible !!

Wide line-up!

In addition to the single phase power supply models, three phase models have been introduced for meeting your office or shop. Please select indoor /outdoor unit in the various models.

Outdoor Line-up (PUHZ-RP**HA2 series)				
	71	100	125	140
Single phase	●	●	●	●
Three phase		●	●	●

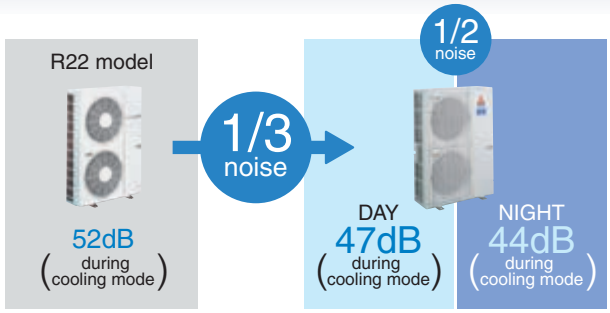
POWER INVERTER

Silent Operation

Technological Improvements for Super Quiet Operation

Silent Operation —Top Level in the Industry

Operation has been made very silent by improvements to the design of the fan blades and the new grille shape. The power inverter is even more silent when outside temperature drops as it automatically switches to low-noise mode to reduce operating noise by 3dB.



Low-Noise Priority Function

A low-noise priority function is also available by connecting a commercially available timer or selector switch. When a signal is received from the timer or switch, the unit runs in low-noise priority mode.
(Switch setting is required when installed.)

	R22	R410A	
	Non-Inverter	Inverter (PUHZ-RP)	
		Normal	Low Noise Mode
3HP (71)	52	47	44
4HP (100)	54	49	46
5HP (125)	55	50	47
6HP (140)	56	50	48

*Sound pressure level (dBA)

Longer Maximum Piping Length

By additional filling with refrigerant, it is now possible to have pipes up to 75 metres long, making it easier to select a layout to install the unit.

Max Piping Length can be streched to 75m		
	Max Height difference	Max.piping length
PUHZ-RP71	30m	50m
PUHZ-RP100/125/140	30m	75m

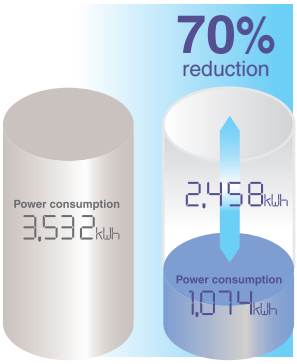
Reducing Energy Consumption

Cost Performance Comparison: Inverter Model vs. Non-inverter Model

Thanks to the new Power Inverter system, a large reduction in power consumption is now possible.
This results in one of the highest COP ratings in the industry,
helping to lower overall running costs and providing great savings to customers.

Case study 1. = Power Consumption

Based on our calculations on the operating conditions shown below, the new Power Inverter system can reduce power consumption by up to 70% compared to an old model installed 8 years ago!



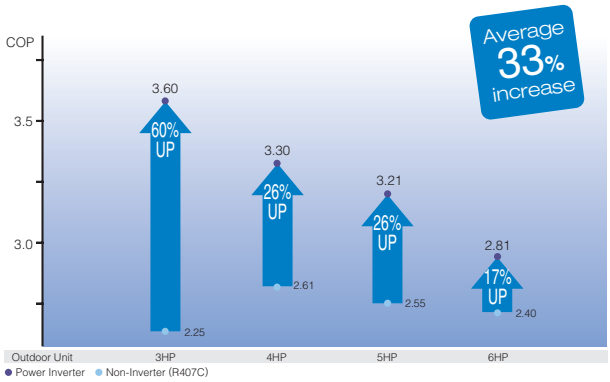
Conditions of trial calculation
(according to Japan Refrigerant Association)

Place	Office in Tokyo (Japan)
Operating time	8AM to 8PM (12 hours/day) & 6 days/week
Operating period	Cooling: April 16–November 8 Heating: December 14–March 23
Set temperature	Cooling: 27°C, Heating: 20°C

Before replacement: Installed 8 years ago	After replacement: Power Inverter
Model name PLH-3GKHB/ PUH-3YKA	Model name PLA-RP71AA/ PUHZ-RP71VHA

Case study 2. = COP

Comparison of COP between non-inverter and power inverter (4 way cassette type) models.



High Power

More Power for Faster Cooling/Heating

Higher Cooling/Heating Power

The cooling/heating capacity when outdoor temperature is low or high and the maximum operating speed of the Power Inverter Mr. SLIM have been improved by up to 33% compared to the current model.

Cooling capacity — 4way cassette

	R22 Non-Inverter	R410A Power Inverter Max. (PUHZ-RP)	
3HP (71)	7.7	8.1	105%
4HP (100)	9.7	11.4	118%
5HP (125)	12.4	14.0	113%
6HP (140)	14.0	15.3	109%

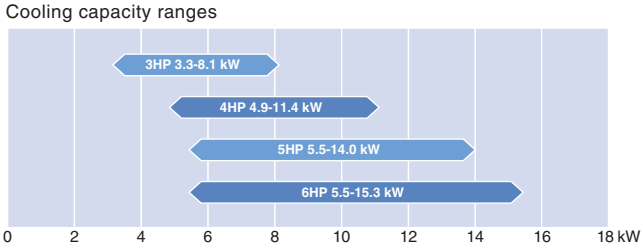
Heating capacity

	R22 Non-Inverter	R410A Power Inverter Max. (PUHZ-RP)	
3HP (71)	8.4	10.2	121%
4HP (100)	10.4	14.0	135%
5HP (125)	14.0	16.0	114%
6HP (140)	16.1	18.0	112%

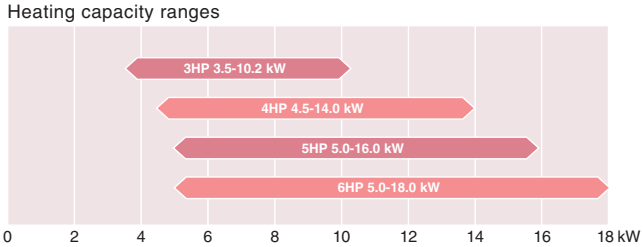
Wider Performance Range

Operation is now possible at lower speeds, thus cutting energy losses produced by the repeated on/off operation of non-inverter models. Comfort is improved while power consumption is reduced.

Cooling capacity ranges



Heating capacity ranges



Cleaning-Free Technology

PUHZ-RP71 Features

New HAB Refrigerant Oil

1st in the Industry!

Our Inverter-driven models are the first in the industry to use hard alkyl benzene (HAB) oil—a unique refrigerant oil that degrades very slowly—for refrigeration. Employing our exclusive cleaning-free technologies such as a specially developed high-efficiency oil separator and optimum distribution of heat exchangers to prevent oil stagnation, we have made it possible to reuse previously installed pipeworks.

Refrigerant circuit lasts longer with less deterioration using the new HAB refrigerant oil*

Colour of the oil at initial stage

Colour of the oil at 10 years after use

Characteristics of the new refrigerant oil

Name: HAB Oil

Oil characteristics:

① Difficult to dissolve in the refrigerant.

② High chemical and heat stability, uniform quality, high fluidity and viscosity.

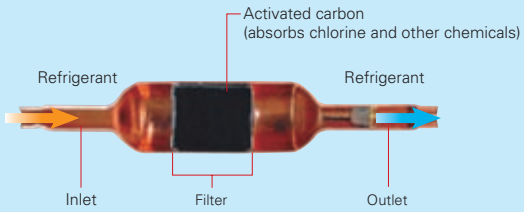
*Data taken from our lab: Test results equivalent to 10 years worth of use

PUHZ-RP100/125/140 Features

Exclusive Replacement Filter

The refrigerant oil (ester oil) used for the 10.0–25.0kW models will degrade when mixed with chemicals such as chloride found in existing pipes. To prevent oil degradation and make it possible to reuse existing pipes, Mitsubishi Electric has developed an exclusive replacement filter that uses activated charcoal to soak up chlorides.

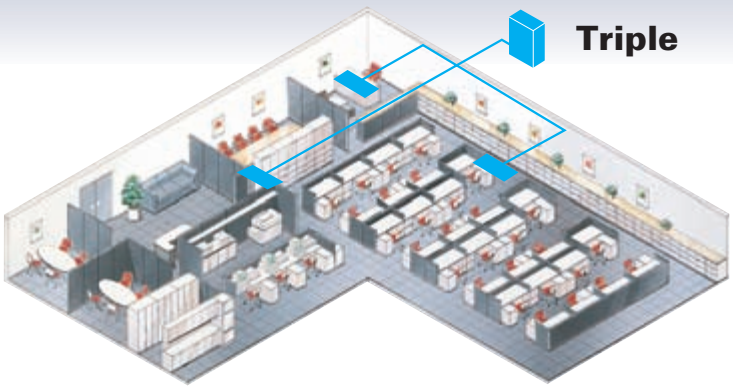
Replacement filter (conceptual diagram)



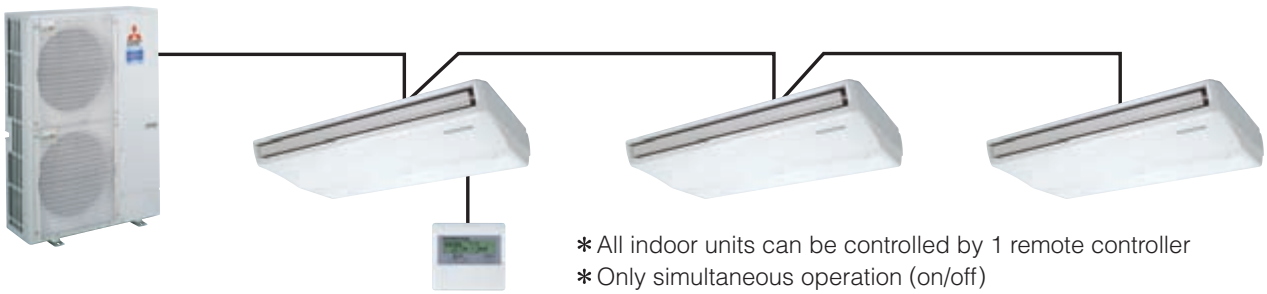
Multi-System Use

Advantages of Mr. SLIM Multi system

1) Equally comfortable air conditioning for big space with multiple indoor units.
2) Various indoor unit combinations available.
3) Reduction of installation space of outdoor unit.
4) Automatic address setting for easy installation.



System example



* All indoor units can be controlled by 1 remote controller
* Only simultaneous operation (on/off)

Combination chart (Same capacity–Same type or Different type)

	Twin	Triple
PUHZ-RP100	50 × 2	
PUHZ-RP125	60 × 2	
PUHZ-RP140	71 × 2	50 × 3
Distribution pipe	MSDD-50SR-E MSDD-50WR-E	MSDT-111R-E

*P Series indoor units only.

NEW

Standard Inverter

Our New Inverter features Energy Saving, Compact Design, Light Weight, and Basic Performances as well.

A Product Line of 19 Models in 5 Types Responds to Your Versatile Needs.

To meet your interior or space designing, optimum indoor units can be selected from 5 types. A combination with different type indoor units in two or three rooms besides 1:1 combination can be constituted various applications.

Possible Combinations

Capacity	PEA	PLA	PCA	PCA-HA	PKA
5.0kW			●		
6.0kW		●	●		
7.1kW	●	●	●	●	●
10.0kW	●	●	●		●
12.5kW	●	●	●	●	
14.0kW	●	●	●		

*50/60/71 models are for Twin/Triple use.

PUHZ-BP100/125/140VHA

Easier Installation Work Thanks to Compact and Light Weight Design

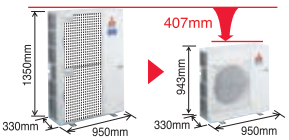
The outdoor unit model BP100 counts for 943mm only for the height and 66kg for the mass. A significant weight reduction of 55kg has been attained compared to the Power Inverter. The burdening of installation/transportation work can be lightened by the compact design and light weight. BP200/250 became compact as well!!

100 class

Compared to Power Inverter

Reduced by 407mm, 55kg

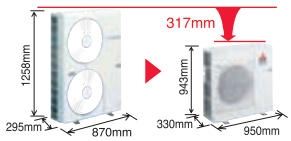
Power Inverter 121kg → New Inverter 66kg



Compared to Fixed Speed Unit

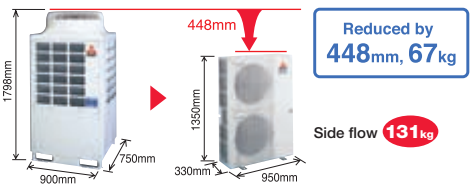
Reduced by 317mm, 28kg

R22 Fixed Speed 94kg → New Inverter 66kg



200 class

Compared to Previous Inverter



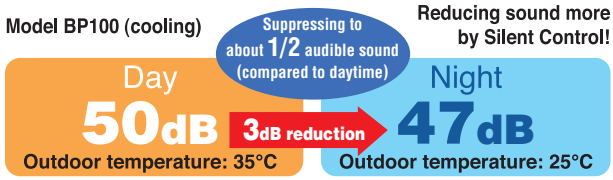
Top flow 198kg

Reduced by 448mm, 67kg

Side flow 131kg

Silent Outdoor Unit

The silent operation of the outdoor unit Model BP100 has attained down to 50dB (cooling). Further 3dB can be reduced under the Silent Operation Mode.



Heating Operation Possible Even at −15°C Outside Temperature

Piping Length for Easier Installation

Refrigerant piping can be extended up to 50m or 70m by charging refrigerant additionally.

	Chargeless piping length	Max. piping length
BP100	20m	50m
BP125/140	20m	50m
BP200/250	30m	70m

Another possibility! Compact S series outdoor unit can now be connected to P series indoor unit as well.

S series outdoor unit can be connected not only with SLZ and SEZ but also some P series indoor units. Greater inverter line up satisfies your various requirement.

Possible Combinations

	SEZ-KA	SLZ-KA	PEA-EA	PCA-GA	PLA-BA
SUZ-KA25	●	●			
SUZ-KA35	●	●			
SUZ-KA50	●	●		●	
SUZ-KA60	●			●	●
SUZ-KA71	●		●	●	●

Outdoor Unit

SUZ-KA50/60/71VA

Indoor Unit

Ceiling Concealed PEA-EA

4 Way Ceiling Cassette PLA-BA

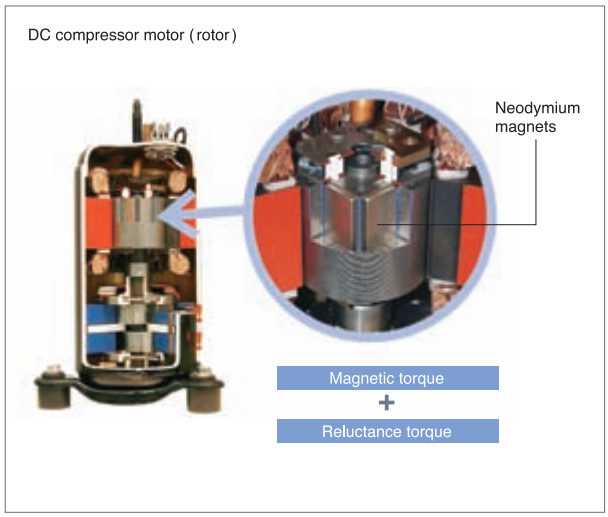
Floor Standing PCA-GA

Advanced technology for High Efficiency

Numerous Leading-edge Technologies Assure High Efficiency

Reluctance DC Rotary Compressor (3HP)

The reluctance DC motor has a rotor equipped with powerful neodymium magnets. The magnetic torque produced by the neodymium magnets and reluctance torque results in more efficient operation.



DC Fan Motor

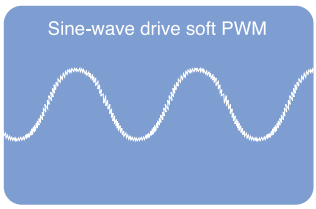
A high-efficiency DC motor drives the fan of the outdoor unit. It offers up to 60% greater efficiency than an equivalent AC motor.

Vector-Wave Eco Inverter

This produces the most efficient waveform in response to varying compressor motor rpm. By improving operating efficiency from low to high speeds, annual electricity costs are reduced.

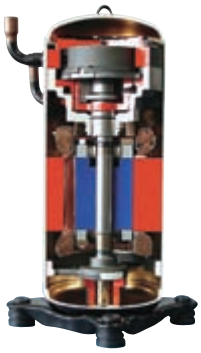
Smooth AC wave pattern

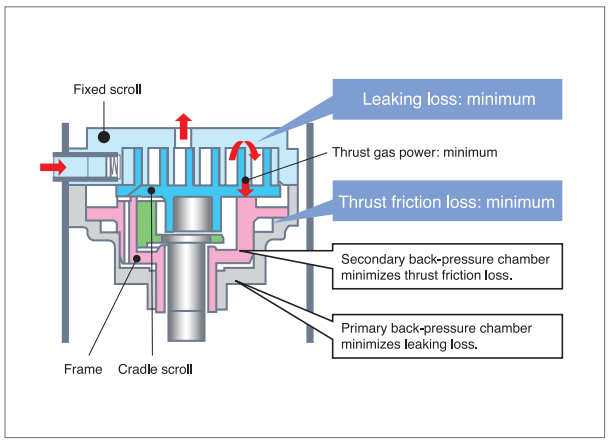
The inverter has been made compact by insert-moulding the circuit pattern in synthetic resin.
To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



New Highly Efficient Scroll Compressor (4/5/6/8/10HP)

The newly developed scroll compressor is equipped with a “Frame Compliance Mechanism” that allows movement in the axial direction of the frame supporting the cradle scroll. This greatly reduces both leaking and friction loss, ensuring very high efficiency throughout the speed range.

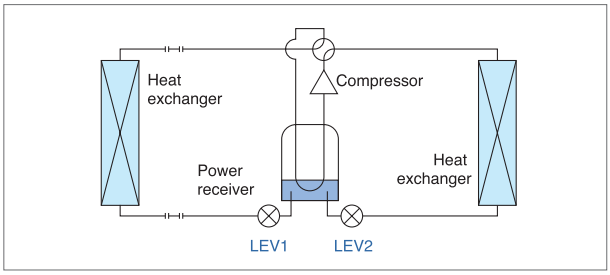




Power Receiver and Twin LEV Control

(4/5/6HP)

Mitsubishi Electric has developed a power receiver and twin LEVs (linear expansion valves) that optimise the performance of the compressor. By ensuring optimum control in response to the operating waveform and outdoor temperature, this technology is tailored to the characteristics of the new refrigerant to enhance operating efficiency.



Control technology

Renovating air conditioning communication by advanced MA Remote Controller newly developed

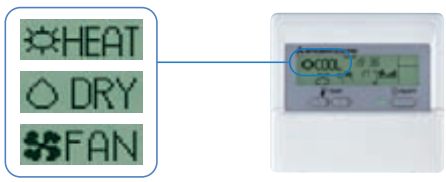
PAR-21MAA

Employment of Dot Liquid Crystal Display

Acknowledging the operation and control status at a glance. The large size display upgrades visual acknowledgement capability. The operation and control status can be understood promptly.

Display example [Operation mode]

Dot liquid crystal display section



Easy-to-read / Easy-to-use

Industry First! Multi-language Display

1st in the Industry!

Multi-language

8 languages can be displayed.

Display can be switched over for 8 kinds of language.

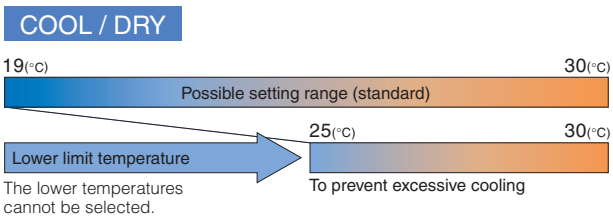
Effective in energy saving control

Operation Control Function

Limiting the set temperature range

Air conditioning operation always within a limited temperature range

The setting of the upper and lower limit temperature is possible. This prevents excessive cooling and heating leading to contribute in saving energy.



Recommend to use in Office Restaurant

Auto Off timer

Automatic turning off of air conditioning operation

The air conditioning operation can be switched off automatically thus preventing waste operation. The set time can be changed from 30 minutes to 4 hours at 30-minute intervals.

* The "Simple timer" (starts and stops in a unit of one hour within 72 hours) set at factory shipment can be changed to the "Auto off timer" by switching the function of the remote controller.

Recommend to use in Meeting room

Operation locking

Preventing the random modification of setting

Setting to invalidate all buttons or the operation other than with ON/OFF button is available. This always assures operation under an adequate temperature preventing the meaningless change of set temperature, leading to effective energy savings. This is also effective to prevent erroneous or mischievous operation.

* The change of setting may be limited to the administrator who knows the method to release the locking.

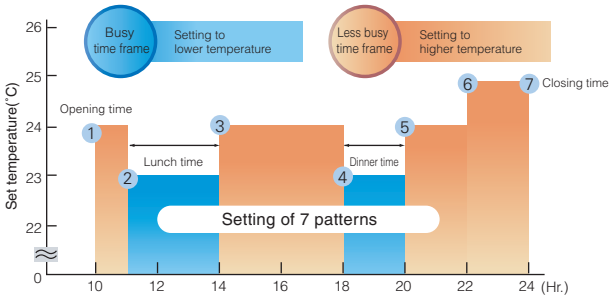
Recommend to use in Office School / private school Public facility like public hall Hospital Server room

Equipped with the Long Awaited Weekly Timer

Weekly timer function capable of temperature control

The function of the weekly timer equipped can change the set temperature in addition to the ON/OFF control. Up to 8 patterns can be set for each calendar day.

Setting Example (Restaurant in summer time)



*Result of cooperative study with Japan Facility Solution Co, Ltd.

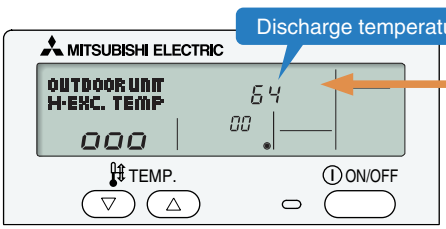
Setting the temperature to "1°C higher in cooling" while "1°C lower in heating" results in about 10% energy saving.

about 10%* Energy Saving

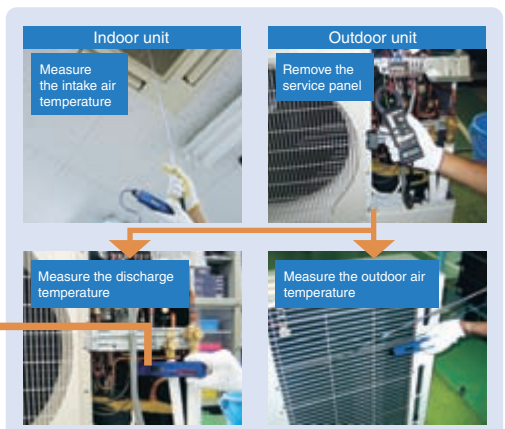
*Based on our internal calculation

Easy Maintenance Function (only for Power Inverter Mr. SLIM)

- Reduces maintenance work drastically.
- Enables you to check operation data of the indoor and outdoor units by remote controller. Furthermore, you can fix the operating frequency, from the remote controller for smoother inspection.



Conventional inspection work



Easy maintenance information

Compressor		Outdoor unit		Indoor unit	
①	Accumulated operating time (×10 hours)	④	Heat exchanger temperature (°C)	⑦	Intake air temperature (°C)
②	Number of ON/OFF times (×100 times)	⑤	Discharge temperature (°C)	⑧	Heat exchanger temperature (°C)
③	Operating current (A)	⑥	Outdoor air temperature (°C)	⑨	Filter operating time* (Hours)

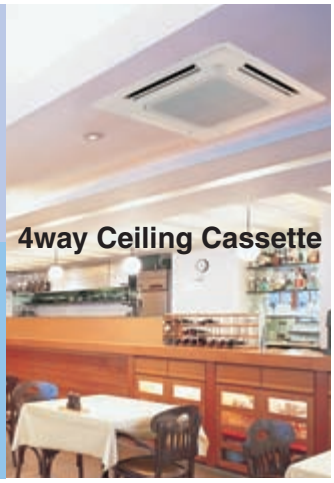
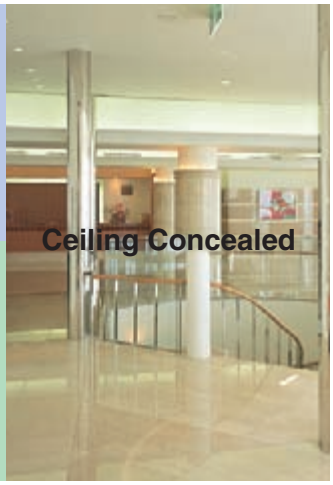
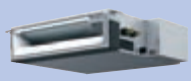
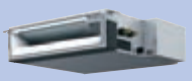
*The filter operating time is the time elapsed since the filter was reset.

NEW Refrigerant Leakage Check (only for PUHZ-RP HA2)

The latest "Power Inverter" Mr. SLIM (PUHZ-RP HA2) has got a new useful "Refrigerant Leakage Check" function. With this function, the refrigerant leakage which may happen during a long period of use can be easily checked with a wired remote controller. Not only time for servicing can be saved, but you also get peace of mind.

INVERTER

Mr.SLIM Product Line up

	1HP	1.6HP	2HP	2.5HP
	2.5kW	3.5kW	5.0kW	6.0kW
 4way Ceiling Cassette	SLZ (Compact Cassette)	SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)	
	NEW PL (Wide Power Cassette)				PLA-RP60BA
 Ceiling Concealed	NEW SEZ (Compact Type)	SEZ-KD25VA(L)	 SEZ-KD35VA(L)	SEZ-KD50VA(L)	 SEZ-KD60VA(L)
	PE				
Ceiling Suspended	PC			PCA-RP50GA	PCA-RP60GA
Wall Mounted	PK				
Outdoor Unit		SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	SUZ-KA60VA

*SEZ/SLZ indoor units should be connected to SUZ outdoor.
*PKA-RP71 and PCA-RP71HA: only for PUHZ-RP outdoor connection.

3HP	4HP	5HP	6HP	8HP	10HP	Remote Controller	See Page
7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW		
						for SLZ-VAL	17
PLA-RP71BA	PLA-RP100BA	PLA-RP125BA	PLA-RP140BA				11
SEZ-KD71VA(L)						for SEZ-VAL	17
PEA-RP71EA	PEA-RP100EA2	PEA-RP125EA	PEA-RP140EA2	PEA-RP200WGA	PEA-RP250WGA		13
PCA-RP71HA PCA-RP71GA	PCA-RP100GA	PCA-RP125HA PCA-RP125GA	PCA-RP140GA			Optional	14 15
PKA-RP71FAL	PKA-RP100FAL					Optional	16
SUZ-KA71VA PUHZ-RP71VHA2	PUHZ-RP100V/YHA2 PUHZ-BP100VHA	PUHZ-RP125V/YHA2 PUHZ-BP125VHA	PUHZ-RP140V/YHA2 PUHZ-BP140VHA	PUHZ-BP200YHA	PUHZ-BP250YHA		

NEW

4Way Ceiling Cassette

PL Series

(i-see Sensor: optional)

PLA-RP60/71
100/125/140BA

Stylish and Advanced PL Series makes any places more comfortable!

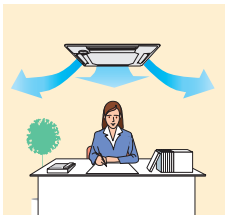
Wide Airflow

With a new horizontal vane blowing wide-angle airflow, the room is cooled sufficiently from wall to wall. The 20% reduced fan speed from our conventional model makes cooling more people friendly than ever.

Less Cold Draft

Reduces the potentially irritating sensation of cold draft. Newly adopted “chilly airflow prevent mode*” ensures horizontal airflow–eliminating direct onslaughts of cool air to curb any chilly sensation.

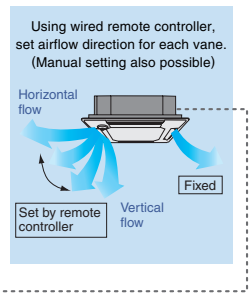
*Setting by remote controller is required. It may cause dirt on the ceiling if used in the condition the airflow is not stable.



Horizontal airflow
cuts drafty sensation.

Independent Vane Direction Setting

Airflow direction of each vane can be set by wired remote controller. Adjusting vane direction to fit interior layouts or cooling/heating seasonal transition was difficult. Now, with our PL Series, settings can be changed easily.

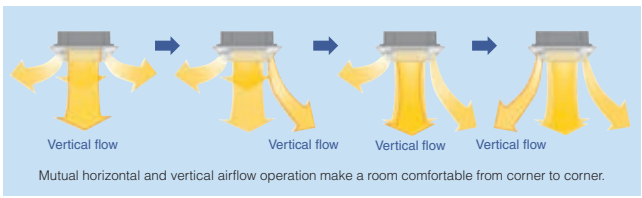

Using wired remote controller, set airflow direction for each vane. (Manual setting also possible)
Horizontal flow
Fixed
Set by remote controller
Vertical flow

With wired remote controller, possible to change the setting at any time.

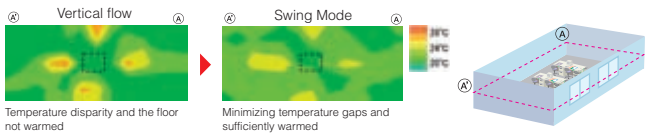
Wave Airflow Mode for Heating

Each vane can be swing automatically with timelag for minimizing temperature gap in the room.

● **“Wave Airflow” operation image**


Vertical flow
Vertical flow
Vertical flow
Vertical flow
Mutual horizontal and vertical airflow operation make a room comfortable from corner to corner.

● **Wave control effect thermo graph**


Vertical flow
Swing Mode
Temperature disparity and the floor not warmed
Minimizing temperature gaps and sufficiently warmed

SPECIFICATIONS: 4Way Ceiling Cassette type (PLA) NEW

Indoor unit		PLA-RP60BA	
Outdoor unit		SUZ-KA60VA	
Function		Cooling	Heating
Capacity (min.-max.)	(kW)	5.7 (1.1-6.3)	6.9 (0.9-8.0)
Input	(kW)	1.94	2.11
COP		2.94	3.27
Indoor unit		PLA-RP60BA	
Power supply			
Airflow (Lo-Mi1-Mi2-Hi)	CMM	12-14-16-18	
	L/S	200-233-267-300	
Sound pressure level	(dB)	28-29-31-32	
Dimension	Height (mm)		
	Width (mm)		
	Depth (mm)		
Weight	(kg)		

Auto Fan Speed Mode

The fan speed is changed automatically depending on the gap between set temperature and room temperature. In case of cooling, operation starts with 'Hi' fan speed and once the room temperature gets stable, the fan speed automatically decreases to low level for more comfort.

Fan speed setting by remote controller (4 levels)

Lo → Mi1 → Mi2 → Hi → Auto

✻Special setting is required for wireless remote controller.

Quiet Operation

Thanks to the improvement of airflow route and large caliber power flow fan, we can realize quiet operation.

Power Flow Fan

"Pure White" Colour

Our new PL Series have beautiful pure white coloured panel and wired remote controller. A great match for interior appointments, generating a clean and streamlined look.

Other Features

- Stylish vane shutter (when the unit is off)
- Drain up–max. 850mm
- Wireless remote controller available
- Duct flange for fresh air intake (option)

Automatic Elevating Panel (option)

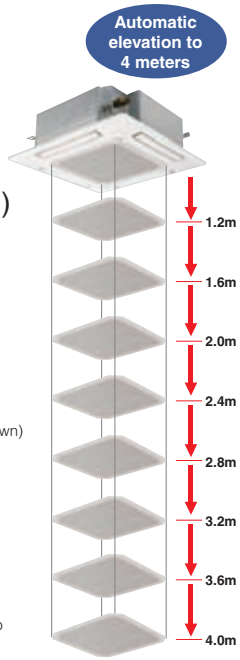
Easy to use, easy for maintenance.

With 8 levels to fit all ceiling heights. Filter cleaning and other maintenance can be operated easily.

Elevating (up-down) controller

Wired remote controller (optional for Auto Elevating Panel)

✻The receiver on the elevating panel can be used for wireless remote controller.



The newly developed 4Way Ceiling Cassette can be equipped with the radiant temperature sensor, "i-see Sensor" to ensure comfort of the room.

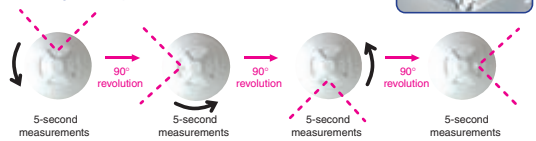
"i-see Sensor" is bad news for temperature disparity and electric bill waste (optional corner panel)

The radiant temperature sensor "i-see Sensor" for your comfort

The "i-see Sensor," a radiant temperature sensor built from new concept engineering available only at Mitsubishi. The control of the floor temperature at foot level is required to realize a comfortable air conditioning in your office or shop. The "i-see Sensor" measures floor temperature with rotating 360° and provides you the comfort which you have not ever experienced.

■"i-see Sensor" operation image

Operates at 5-second interval for precision measurement, and checking the temperature of the floor.



- The "i-see Sensor" detects infrared rays emanating from the walls and floor. The temperature is calculated basis on infrared ray energy. It makes it possible to check the radiant temperature (the floor temperature).
- Upon big gap with the set temperature, measurements are taken at 4 points every 2 minutes. Once stabilized, the sensor revolves once every 5 minutes.

"I feel" Temperature Control

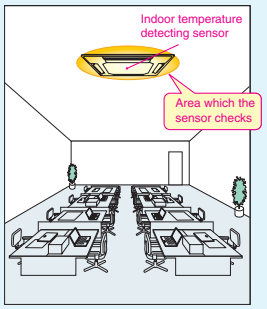
The sensory temperature is calculated by measuring the air intake temperature and the floor temperature. This technology makes it possible to avoid overcooling or overheating.

The conventional model only measured and monitored indoor temperature near the ceiling.

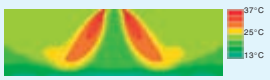
As the current packaged air conditioners only monitor temperature levels near the ceiling, they fail to detect vertical between ceiling and floor temperature gaps.

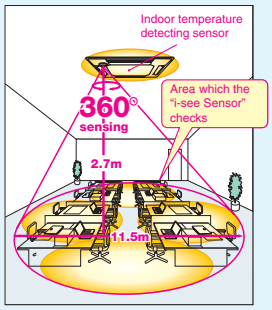
Besides the ceiling zone, the floor temperature are also checked to keep the room comfortable.

New PL Series (with "i-see Sensor") naturally measures indoor temperature and floor temperature without any timelag.

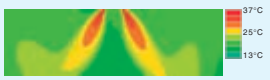


Heating
Set temerature: 23°C
without "i-see Sensor"



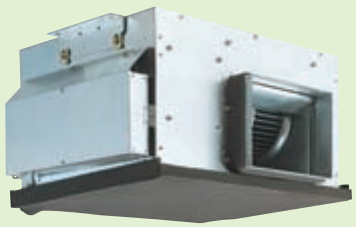


Heating
Set temperature: 20°C
with "i-see Sensor"+ Auto Fan Speed

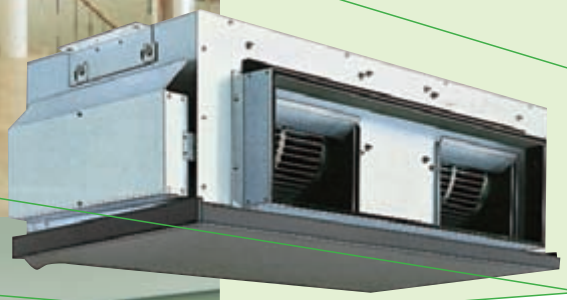


PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP100BA		PLA-RP125BA		PLA-RP125BA		PLA-RP140BA		PLA-RP140BA	
SUZ-KA71VA		PUHZ-RP71VHA2		PUHZ-BP100VHA		PUHZ-RP100V/YHA2		PUHZ-BP125VHA		PUHZ-RP125V/YHA2		PUHZ-BP140VHA		PUHZ-RP140V/YHA2	
Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
7.1 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	9.4 (3.5-10.0)	9.5 (3.5-11.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	11.2 (5.5-12.5)	12.5 (4.7-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (5.2-14.5)	14.8 (4.7-16.0)	14.0 (5.5-15.3)	16.0 (5.0-18.0)
2.53	2.49	2.12	2.21	3.13	2.46	3.02	3.10	3.94	3.64	3.87	3.88	5.28	4.24	4.65	4.43
2.81	3.21	3.35	3.61	3.01	3..86	3.31	3.61	2.84	3.44	3.23	3.61	2.46	3.49	3.01	3.61
PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP100BA		PLA-RP125BA		PLA-RP125BA		PLA-RP140BA		PLA-RP140BA	
Single phase, 50Hz, 220-240V															
14-16-18-21				20-23-26-30				22-25-28-31				24-26-29-32			
233-267-300-350				334-384-434-501				367-417-467-517				400-434-484-534			
28-30-32-34				32-34-37-40				34-36-39-41				36-39-42-44			
Unit: 258, Panel: 35				Unit: 298, Panel: 35											
Unit: 840, Panel: 950															
Unit: 840, Panel: 950															
Unit: 23, Panel: 6				Unit: 25, Panel: 6								Unit: 27, Panel: 6			

Ceiling Concealed PE Series



PEA-RP71EA/100EA2

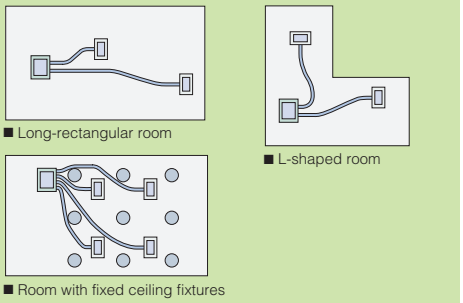


PEA-RP125EA/140EA2
PEA-RP200/250WGA

This flexible, high-quality series, which is concealed in the ceiling to enhance interior aesthetics, provides all the benefits of split-type models plus much more.

Limitless Installation Possibilities

Offering all the benefits of split-type models plus other important advantages, the PE series is not only easy to install but also very versatile. For example, the distance between the air-intake and air-outlet vents can be varied to allow airflow to be positioned in the optimum location.



High Static Pressure

Even when ductwork is very long, the volume of airflow remains large enough due to the high static pressure available.

Computerized Dehumidification

The electronic dehumidifier mode — where fan speed is controlled precisely — increases dehumidification volume while improving dehumidifying efficiency.

SPECIFICATIONS: Ceiling Concealed type (PE)

Indoor unit		PEA-RP71EA		PEA-RP71EA		PEA-RP100EA2		PEA-RP100EA2		PEA-RP125EA	
Outdoor unit		SUZ-KA71VA		PUHZ-RP71VHA2		PUHZ-BP100VHA		PUHZ-RP100V/YHA2		PUHZ-BP125VHA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	6.9 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.4 (3.5-10.2)	9.2 (3.5-10.0)	9.5 (3.5-11.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	11.2 (5.2-12.5)	12.5 (4.7-14.0)
Input	(kW)	2.90	2.49	2.48	2.51	3.82	3.02	3.25	3.20	4.65	4.07
COP		2.38	3.21	2.86	3.35	2.41	3.15	3.08	3.50	2.41	3.07
Indoor unit		PEA-RP71EA		PEA-RP71EA		PEA-RP100EA2		PEA-RP100EA2		PEA-RP125EA	
Power supply		Single phase, 50Hz, 220-240V									
Airflow (Lo-Hi)	CMM	22-27				27-34				34-42	
	L/S	367-450				450-567				567-700	
External static pressure Pa (mmAq)		125Pa (12.7mmAq)									
Sound pressure level	(dB)	52-55				54-58					
Dimension	Height (mm)	428				428				428	
	Width (mm)	785				1,055				1,255	
	Depth (mm)	690									
Weight	(kg)	46				59				72	

Indoor unit		PEA-RP125EA		PEA-RP140EA2		PEA-RP140EA2		PEA-RP200WGA		PEA-RP250WGA	
Outdoor unit		PUHZ-RP125V/YHA2		PUHZ-BP140VHA		PUHZ-RP140V/YHA2		PUHZ-BP200YHA		PUHZ-BP250YHA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (5.2-15.2)	14.8 (4.7-17.4)	14.0 (5.5-15.3)	16.0 (5.0-18.0)	19.0 (9.0-22.4)	22.4 (9.5-25.0)	22.0 (11.2-28.0)	25.0 (12.5-31.5)
Input	(kW)	4.42	4.22	5.39	4.48	5.03	4.51	7.30	7.18	8.53	7.58
COP		2.83	3.32	2.41	3.30	2.78	3.55	2.60	3.12	2.58	3.30
Indoor unit		PEA-RP125EA		PEA-RP140EA2		PEA-RP140EA2		PEA-RP200WGA		PEA-RP250WGA	
Power supply		Single phase, 50Hz, 220-240V						Three phase, 50Hz, 380-415V			
Airflow (Lo-Hi)	CMM	34-42		48-60				48-60		64-80	
	L/S	567-700		800-1000				800-1000		1067-1333	
External static pressure Pa (mmAq)		125Pa (12.7mmAq)						150Pa (15mmAq)			
Sound pressure level	(dB)	54-58		51-55				47-51		53-55	
Dimension	Height (mm)	428						465			
	Width (mm)	1,255		1,415				1,600			
	Depth (mm)	690						614			
Weight	(kg)	72		76				74		80	

Stainless steel type for kitchens
and stylish shops.
Easy maintenance is also available.

Professional Kitchen Use Ceiling Suspended NEW PC Series

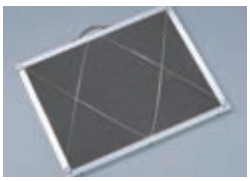
Tough on Oily Smoke

The external casing is made of durable stainless steel that is resistant to oil so that even grimy dirt and stains can be easily removed to keep the unit deanat all times.

High-Performance Oil Mist Filter

The oil mist filter offers 1.5 times* more filtration efficiency compared to conventional types and this helps to reduce the amount of oily smoke entering into the air conditioner. The filter is disposable for hassle-free cleaning and can be easily removed by sliding out the handle towards you.

*Approximate figure



■ Oil mist filter

■ Pull the handle to easily slide the filter out

Easy Maintenance Even for Fan Cleaning

The adoption of a fan casing that can be separated into different sections allows easy fan cleaning. The drain pan can also be cleaned easily on-site as the pipe connector can be quickly removed.

Bring in Outside Air for Fresher Air Conditioning (optional)

The rear panel has a knockout opening that can be used to bring fresh air into the unit. This helps to improve ventilation in the kitchen for more comfort.

PCA-RP71/125HA

optional

SPECIFICATIONS: Ceiling Suspended type (PCA)

Indoor unit		PCA-RP71HA		PCA-RP125HA		PCA-RP125HA	
Outdoor unit		PUHZ-RP71VHA2		PUHZ-BP125VHA		PUHZ-RP125V/YHA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (3.3-8.1)	7.6 (3.5-10.2)	11.2 (5.2-12.5)	12.5 (4.7-14.0)	12.5 (5.5-14.0)	13.8 (5.0-16.0)
Input	(kW)	2.49	2.58	4.22	3.83	4.10	4.16
COP		3.21	3.41	2.65	3.27	3.05	3.32
Indoor unit		PCA-RP71HA		PCA-RP125HA		PCA-RP125HA	
Power supply		Single phase, 50Hz, 220-240V					
Airflow (Lo-Mi1-Mi2-Hi)	CMM	17-19		30-38			
	L/S						
Sound pressure level	(dB)	34-38		44-50			
Dimension	Height (mm)	280		280			
	Width (mm)	1,136		1,520			
	Depth (mm)	650					
Weight	(kg)	41		56			

Ceiling Suspended PC Series

PCA-RP50/60/71
100/125/140GA

optional

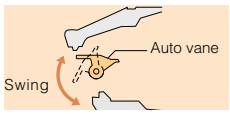
Designed for ultra-quiet operation and easy maintenance, the PC Series provides exceptional air conditioning.

Extra Slim, Extra Stylish

Sleek and slim with stylishly curved lines, the PC Series blends right into any interior. It also features a single air outlet which allows the auto vane to act as a shutter when the unit is turned off.

Auto Vane Distributes Air Evenly

The auto vane swings up and down automatically to distribute air more evenly to every corner of the room.



Keeps Airflow at Optimum Level According to Ceiling Height

The most suitable airflow can be selected for ceilings up to 3.5m high, enhancing air conditioning efficiency and comfort.

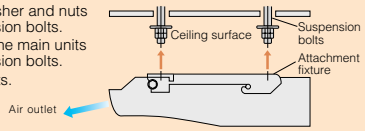
	Standard	High ceiling
Ceiling height	2.7m	3.5m

Greatly Simplified Installation

The new direct suspension system eliminates the task of removing the attachment fixture from the main unit, greatly shortening installation time.

Direct suspension with attachment fixture attached

1. Attach the washer and nuts to the suspension bolts.
2. Suspend the the main units to the suspension bolts.
3. Secure the nuts.



Drain Piping Can be Connected in One of Two Directions, to the Left or the Right of the Unit.

(Drain water lift-up mechanism can be supplied as an optional part.)

SPECIFICATIONS: Ceiling Suspended type (PCA)

Indoor unit		PCA-RP50GA		PCA-RP60GA		PCA-RP71GA		PCA-RP71GA		PCA-RP100GA	
Outdoor unit		SUZ-KA50VA		SUZ-KA60VA		SUZ-KA71VA		PUHZ-RP71VHA2		PUHZ-BP100VHA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	4.7 (1.1-5.4)	5.5 (0.9-6.6)	5.5 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	9.4 (3.5-10.0)	9.5 (3.5-11.2)
Input	(kW)	1.80	1.92	1.92	2.05	2.53	2.49	2.14	2.43	3.46	2.74
COP		2.61	2.86	2.86	3.37	2.81	3.21	3.32	3.29	2.72	3.47
Indoor unit		PCA-RP50GA		PCA-RP60GA		PCA-RP71GA		PCA-RP71GA		PCA-RP100GA	
Power supply		Single phase, 50Hz, 220-240V									
Airflow (Lo-Mi1-Mi2-Hi)	CMM	10-11-12-13		14-15-16-18						20-21-23-25	
	L/S	167-183-200-217		233-250-267-300						333-350-383-417	
Sound pressure level	(dB)	37-38-40-42		37-39-41-43						40-41-43-45	
Dimension	Height (mm)	210								270	
	Width (mm)	1,000		1,310							
	Depth (mm)	680									
Weight	(kg)	27		34						37	

Indoor unit		PCA-RP100GA		PCA-RP125GA		PCA-RP125GA		PCA-RP140GA		PCA-RP140GA	
Outdoor unit		PUHZ-RP100V/YHA2		PUHZ-BP125VHA		PUHZ-RP125V/YHA2		PUHZ-BP140VHA		PUHZ-RP140V/YHA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	11.2 (5.2-12.5)	12.5 (4.7-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (5.2-14.5)	14.8 (4.7-16.0)	14.0 (5.5-15.3)	16.0 (5.0-18.0)
Input	(kW)	2.92	3.26	4.08	4.26	3.88	4.11	5.41	4.59	4.65	4.60
COP		3.42	3.44	2.75	2.93	3.22	3.41	2.40	3.22	3.01	3.48
Indoor unit		PCA-RP100GA		PCA-RP125GA		PCA-RP125GA		PCA-RP140GA		PCA-RP140GA	
Power supply		Single phase, 50Hz, 220-240V									
Airflow (Lo-Mi1-Mi2-Hi)	CMM	20-21-23-25		27-30-32-34							
	L/S	333-350-383-417		450-500-533-567							
Sound pressure level	(dB)	40-41-43-45		41-43-45-46				42-44-46-48		42-44-46-48	
Dimension	Height (mm)	270									
	Width (mm)	1,310		1,620							
	Depth (mm)	680									
Weight	(kg)	37		43				45			

Elegant design and compact dimensions are ideal for offices, stores and residential uses.

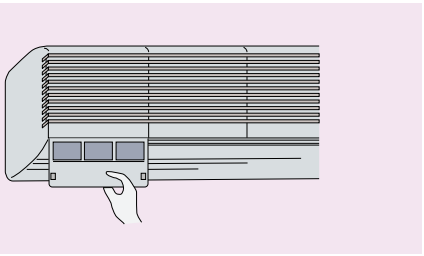
Auto-flap Shutter Enhances Good Looks

PKA-RP71/100FAL

The Intake Grille Filter Can be Completely Removed Allowing Easy Cleaning

(Can be washed in water)

Filter slides out



4-way Piping Provides more Flexibility in Selecting Installation Sites

Wired Remote Controller Available

(Optional)

A separately sold wired remote controller and a terminal block are available to suit various installation sites.

Wall Mounted PK Series

optional

SPECIFICATIONS: Wall Mounted type (PKA)

Indoor unit		PKA-RP71FAL		PKA-RP100FAL		PKA-RP100FAL	
Outdoor unit		PUHZ-RP71VHA2		PUHZ-BP100VHA		PUHZ-RP100V/YHA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	9.4 (3.5-10.0)	9.5 (3.5-11.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)
Input	(kW)	1.98	2.40	3.37	2.76	2.93	3.25
COP		3.59	3.33	2.79	3.44	3.41	3.45
Indoor unit		PKA-RP71FAL		PKA-RP100FAL		PKA-RP100FAL	
Power supply		Single phase, 50Hz, 220-240V					
Airflow (Lo-Mi1-Mi2-Hi)	CMM	15-20		22-28			
	L/S	250-333		367-467			
Sound pressure level	(dB)	39-45		41-46			
Dimension	Height (mm)	340					
	Width (mm)	1,400		1,680			
	Depth (mm)	235					
Weight	(kg)	24		28			

NEW

Compact 4Way Cassette　　Compact Ceiling Concealed

SLZ/SEZ Series

Our super-quiet compact indoor unit, with cutting edge remote control. Comfortable operation for any places.

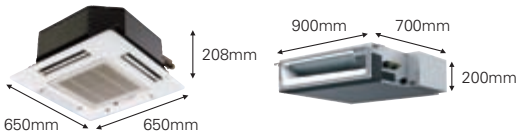
SLZ-KA25/35/50VA(L)

SEZ-KD25/35/50/60/71VA(L)

for SLZ　for SEZ

Compact Design

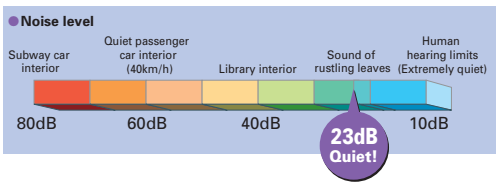
Models for any room in the house. For 2×2 ceiling installation, the SLZ compact cassette, for a perfect fit. The ceiling concealed model, the SEZ Series, compresses installation space at only 200mm in height.



SLZ-KA25/35/50　　SEZ-KD35/50

Very Quiet Operation

The S Series, for whisper-quiet operation.
Hushed noise level of 23dB (SEZ-KD25/35).
For calm and comfy space.
You would not recognize the existence of air conditioner.



Energy Saving

Low energy consumption–a must for today's air conditioners. The SLZ/SEZ Series–key to fresh, cost-effective air comfort.

Air-Cleaning Filter

This built-in filter removes dust and contaminants, keeping air fresh all the time. Maintenance is as simple as vacuuming. And more, SLZ Series have a long life filter. It can keep their performance about 2,500 hours without replacement.

SPECIFICATIONS: Compact 4Way Cassette type/Compact Ceiling Concealed type (SLZ, SEZ)

Indoor unit		SLZ-KA25VA(L)		SLZ-KA35VA(L)		SLZ-KA50VA(L)		SEZ-KD25VA(L)		SEZ-KD35VA(L)		SEZ-KD50VA(L)		SEZ-KD60VA(L)		SEZ-KD71VA(L)	
Outdoor unit		SUZ-KA25VA		SUZ-KA35VA		SUZ-KA50VA		SUZ-KA25VA		SUZ-KA35VA		SUZ-KA50VA		SUZ-KA60VA		SUZ-KA71VA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	2.5 (0.9-3.2)	3.0 (0.9-4.5)	3.5 (1.0-3.9)	4.0 (0.9-5.0)	4.6 (1.1-5.2)	5.0 (0.9-6.5)	2.5 (0.9-3.2)	3.0 (0.9-4.5)	3.5 (1.0-3.9)	4.0 (0.9-5.0)	5.0 (1.1-5.6)	6.0 (1.1-7.2)	5.5 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.3)	8.1 (0.9-10.4)
Input	(kW)	0.69	0.83	1.06	1.10	1.63	1.55	0.778	0.83	1.09	1.108	1.78	1.87	1.89	2.05	2.53	2.37
COP		3.62	3.61	3.30	3.64	2.82	3.22	3.21	3.61	3.21	3.61	2.81	3.21	2.91	3.41	2.81	3.42
Indoor unit		SLZ-KA25VA(L)		SLZ-KA35VA(L)		SLZ-KA50VA(L)		SEZ-KD25VA(L)		SEZ-KD35VA(L)		SEZ-KD50VA(L)		SEZ-KD60VA(L)		SEZ-KD71VA(L)	
Power supply		Single phase, 50Hz, 230V															
Airflow (Lo-Hi)	CMM	8-9-10		8-9-11				5.5-9		7-11		10-15		12-18		12-20	
	L/S	133-150-167		133-150-183				92-150		117-183		167-250		200-300		200-333	
External static pressure Pa (mmAq)		0						5-15-35-50									
Sound pressure level	(dB)	28-31-37		29-33-38		30-34-39		23-30		23-33		30-37		30-38		30-40	
Dimension	Height (mm)	unit: 208, panel: 20						700		900				1,100			
	Width (mm)	unit: 570, panel: 650						700									
	Depth (mm)	unit: 570, panel: 650						200									
Weight	(kg)	unit: 16.5, panel: 3						18		21		23		27			

*SLZ-KA VAL and SEZ-KA VAL are with a wireless remote controller.

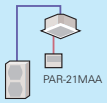
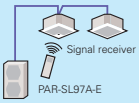
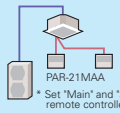
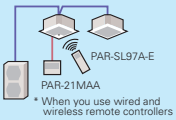
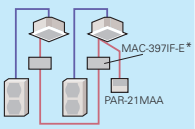
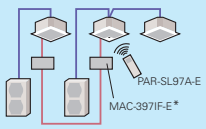
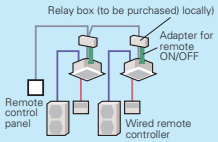
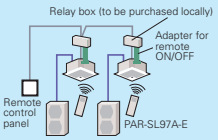
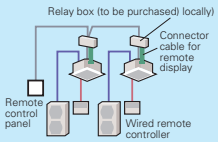
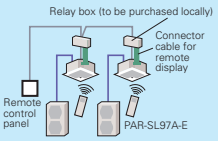
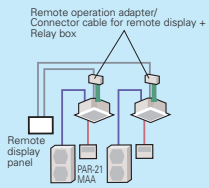
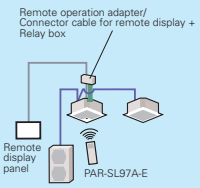
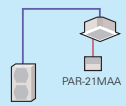
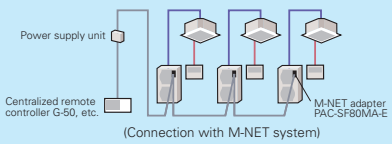
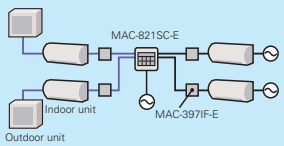
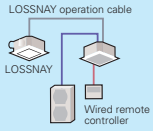
Main features of Mr.SLIM (Inverter use)

Name of function		Explanation	PLA	PEA	PKA	PCA
Control	Weekly timer		●	●	●	●
	Lossnay connectable	Connection with Lossnay via optional adapter.	●	●	●	●
	System control		●	●	●	●
	M-NET connectable	Connection with City-Multi control via optional M-NET converter.	○	○	○	○
	Operation lock		●	●	●	●
	Limit setting temp.		●	●	●	●
	Auto off timer		●	●	●	●
Airflow	High ceiling airflow setting	If indoor unit installed high ceilling, the airflow can be reached to floor.	●	—	—	●
	72 patterns airflow	According to the layout of room, ideal airflow pattern can be selected.	●	—	—	—
	Auto vane shutter	When operation is stopped, air flap is automatically closed.	●	—	●	●
	Auto swing airflow	The vane move up and down automatically for comfortable air distribution.	●	—	●	●
	4 notch fan speed	Fan speed can be selected by 4 notch (pattern)	●	—	—	●
	2 notch fan speed	Fan speed can be selected by 2 notch (pattern)	—	●	●	—
Comfort	Auto C/H changeover	Operation of cooling or heating is automatically changed according to condition.	●	●	●	●
	Computer dehumidification		●	●	●	●
	Hot start	No cool air being blown out when the heating operation is started.	●	●	●	●
	Quiet operation		●	●	●	●
	Fresh air intake		●	—	—	—
Maintenance	Easy maintenance function		●	●	●	●
	Self-diagnostic display on R/C	From remote controller, error code can be checked.	●	●	●	●
	Long life filter		●	—	—	●
	High efficiency filter (Optional)		○	—	—	○
	Filter sign	On remote controller, user can check the time to replace the filter.	●	—	—	●
	Easy filter cleaning	Filter can be removed easily.	●	—	●	—
	Handy corner pocket	From this pocket, maintanance work can be done without removing the panel.	●	—	—	—
	Simplified drain pan cleaning	Drain pan can be cleaned without removing the panel.	●	—	—	—
Installation	Chargeless system		●	●	●	●
	Drain water lift up		●	—	○	○
	Function setting by remote controller		●	●	●	●
	Test operation from outdoor unit	PUHZ only	●	●	●	●
Others	Multiple system		●	●	●	●
	Low temp. operation		●	●	●	●
	Auto restart function		●	●	●	●

● Standard ○ Optional

System Controls (P Series)

Versatile system controls can be realized by using optional parts, relay circuits, control panels, etc.

	System examples		Details	Major optional parts required
	Wired remote controller	Wireless remote controller		
A 1-remote controller control Standard System	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• Either wired type or wireless type remote controller can be used.	None
B 2-remote controller control With 2 remote controllers, control can be performed locally and remotely from 2 spots.	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• Up to 2 remote controllers can be connected to 1 group. • Both wired and wireless remote controllers can be used in combination.	• Wired Remote Controller **PAR-21MAA** • Wired Remote Controller Kit for PKA **PAR-21MAAT-E** • Wireless Remote Controller **PAR-SL97A-E** • Wireless Remote Controller Kit for PCA **PAR-SL99B-E**
C Group Control One remote controller can control plural air conditioners simultaneously under a same setting. * The setting of the refrigerant address is required for outdoor unit.	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 + Simultaneous Twin)	• One remote controller can control up to 16 refrigerant systems. • Outdoor unit can be started/stopped (thermostat ON/OFF) individually. • Up to 2 remote controllers can be connected.	• **MAC-397IF-E** is required for each indoor unit if the outdoor unit is SUZ or MXZ. (If the outdoor unit is P series, no optional parts are required.)
D Operation Control by Level Signal (DC12V) Air conditioner can be started/stopped remotely. In addition, the ON/OFF by local remote controller can be prohibited/permitted.	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• Operation other than ON/OFF (adjustment of temperature, fan speed, and air direction, for example) can be performed even when remote controller operation is prohibited. • Timer control is possible with an external timer.	• Adapter for remote ON/OFF **PAC-SE55RA-E** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
E Operation Control by Pulse Signal	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• The pulse signal can be turned ON/OFF. • Operation/Fault signal can be received at a distant place (DC 12V signal).	• Connector cable for remote display **PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
F Remote Display of Operating Status Operating status can be displayed at a distant place.	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• Operation/Fault signal can be received at a distant place (when channeled through the **PAC-SF40RM** → no-voltage signal, when channeled through the **PAC-SA88HA-E** → DC 12V signal).	• Remote display panel (to be purchased locally) • Connector cable for remote display **PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote operation adapter **PAC-SF40RM** *Unable to use with wireless remote controller • Remote display panel (to be purchased locally)
G Timer Operation Allows ON/OFF with timer *For the control by external timer, refer to D Operation Control by Level Signal.	 (Example of 1 : 1 system)		• **Weekly timer:** ON/OFF and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) • **Simple timer:** ON/OFF can be set once each within 72 hr. in a unit of one hour. • **Auto-off timer:** Operation will be switched off after elapsing a certain time. Set time can be changed from 30 min. to 4 hr. at 30 min. intervals. *Simple timer and Auto off timer cannot be used at the same time.	Standard functions of **PAR-21MAA**
H Centralized Control Centralized control of dispersed air conditioning equipment allows effective monitoring/controlling.	 (Connection with M-NET system)		• Mounting the adapter for M-NET connection to the outdoor unit allows MELANS (M-NET system) connection. • Allows centralized control by MELANS.	M-NET adapter: **PAC-SF80MA-E**
<Outdoor unit: SUZ or MXZ> Up to 8 indoor units can be switched ON/OFF with one remote controller.			• Centralized remote controller can be connected to each indoor unit via interface. • Individual ON/OFF and switching OFF at a time is possible with centralized controller. The ON/OFF status of each unit can be confirmed by the LED on the centralized remote controller.	• **MAC-397IF-E** (Interface) • **MAC-821SC-E** (Centralized remote controller)
I Interlocking with LOSSNAY LOSSNAY can be controlled with remote controller	 (Example of 1 : 1 system)		• LOSSNAY can be connected to the indoor unit.	SLIM-LOSSNAY connection cable

Specifications: Outdoor unit

Outdoor unit						
			SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	SUZ-KA60VA	SUZ-KA71VA
External finish			Munsell 3.0Y 7.8/1.1				
Power supply			Single phase, 50Hz, 230V				
Compressor output		(kW)	0.55	0.65	0.85		1.3
Airflow <cool/heat>		CMM (L/S)	34 (568) / 32 (534)	33 (551)	49 (818)		
Sound pressure level (dB)	Cooling		46	47	53		
	Heating		46	48	55		
Sound power level		(dB)	59	61	68		
Dimension	Height	(mm)	550		850		
	Width	(mm)	800		840		
	Depth	(mm)	285		330		
Weight		(kg)	33	37	53		58
Changeless piping length		(m)	7				
Max. pipng length		(m)	20		30		
Breaker size		(A)	10		20		

*These figures are only outdoor unit.

Outdoor unit						
			PUHZ-RP71VHA2	PUHZ-RP100V/YHA2	PUHZ-RP125V/YHA2	PUHZ-RP140V/YHA2
External finish			Munsell 3.0Y 7.8/1.1			
Power supply			V: Single phase, 50Hz, 220-240V Y: 3 phase, 50Hz, 380-415V			
Compressor output		(kW)	1.6	1.9	2.4	2.9
Airflow		CMM (L/S)	55 (920)	100 (1670)		
Sound pressure level (dB)	Cooling mode		47	49	50	50
	Silent mode		44	46	47	48
	Heating mode		48	51	52	52
Sound power level		(dB)	66	69	70	71
Dimension	Height	(mm)	943	1350		
	Width	(mm)	950	950		
	Depth	(mm)	330+30	330+30		
Weight		(kg)	75	121	116	
Changeless piping length		(m)	30	30		
Max. pipng length		(m)	50	75		
Protection device			Discharge thermo, HP switch	Discharge thermo, HP switch		
Rated running current <cool/heat>		(A)	8.04/9.74	V: 12.53/12.39 Y: 4.08/4.03	V: 15.53/15.98 Y: 5.04/5.20	V: 19.65/19.92 Y: 6.37/6.46
Breaker size		(A)	25	V: 32 Y: 16	V: 32 Y: 16	V: 40 Y: 16

*These figures are only outdoor unit.

Outdoor unit							
			PUHZ-BP100VHA	PUHZ-BP125VHA	PUHZ-BP140VHA	PUHZ-BP200YHA	PUHZ-BP250YHA
External finish			Munsell 3Y 7.8/1.1				
Power supply			Single phase, 50Hz, 220-240V			3 phase, 50Hz, 380-415V	
Compressor output		(kW)	2.0	3.4	3.9	4.7	5.5
Airflow		CMM (L/S)	60 (1000)	70 (1170)		130 (2167)	
Sound pressure level (dB)	Cooling mode		50	52	54	59	
	Silent mode		47	49	51	56	
	Heating mode		54	55	56	59	
Sound power level		(dB)	70	72	74	77	
Dimension	Height	(mm)	943			1350	
	Width	(mm)	950			950	
	Depth	(mm)	330+30			330+30	
Weight		(kg)	66	80	84	126	133
Changeless piping length		(m)	20			30	
Max. pipng length		(m)	50			70	
Protection device			Discharge thermo, HP switch			Shell thermo, HP switch	
Rated running current <cool/heat>		(A)	15.26/11.68	18.24/15.64	19.46/15.38	9.47/9.88	11.0/12.0
Breaker size		(A)	25	32	40	32	

*These figures are only outdoor unit.

Notes for All Specifications

Rating conditions (AS/NZS 3823)
Cooling - Indoor: 27°C (80° F) DB, 19°C (66° F) WB
Outdoor: 35°C (95° F) DB
Heating - Indoor: 20°C (68° F) DB
Outdoor: 7°C (45° F) DB, 6°C (43° F) WB
Refrigerant piping length (one-way); 5m (16ft.)

Total input based on the indicated voltage (indoor/outdoor)

	Indoor	Outdoor
50Hz	Single phase, 230V	Single phase, 230V / 3 phase, 400V

Guaranteed Operating Range

		SUZ-KA		PUHZ
		25/35	50/60/71	all
Cooling	Upper limit	46°C	43°C	46°C
	Lower limit	–10°C	–15°C	–5°C (–15°C*1)
Heating	Upper limit	24°C	24°C	21°C
	Lower limit	–15°C	–15°C	–20°C*2

*1 With the optional air outlet guide, the operation at –15°C outdoor temperature is possible.
*2 –11°C for PUHZ-RP71. –15°C for PUHZ-BP100/125/140.

Optional Parts

Part Name	Model Name	Application Name
Joint Pipe ø9.52 → ø12.7 ø15.88 → ø19.05	PAC-SG73RJ-E PAC-SG75RJ-E	PUHZ-RP71 PUHZ-RP100/125/140
Filter Dryer ø9.52 (liquid) ø12.7 (liquid)	PAC-SG82DR-E PAC-SG85DR-E	PUHZ-RP71/100/125/140 PUHZ-RP200/250
Air Outlet Guide	PAC-SG59SG-E	All PUHZ
Air Protect Guide	PAC-SH63AG-E	All PUHZ
Drain Socket	PAC-SG61DS-E MAC-851DS MAC-811DS	All PUHZ SUZ-KA25/35 SUZ-KA50/60/71
Drain Pan	PAC-SG64DP-E	PUHZ-RP71/100/125/140 PUHZ-BP100/125/140
Control / Service Tool	PAC-SK52ST-E	All PUHZ
Distribution Pipe For Twin For Twin For Triple For Quadruple	MSDD-50SR-E MSDD-50WR-E MSDT-111R-E MSDF-1111R-E	All PUHZ
M-NET Adapter	PAC-SF80MA-E	All PUHZ
Program Timer	PAC-SC32PTA	All PUHZ
Remote Sensor	PAC-SE41TS-E	All PUHZ
Remote On/Off Adapter	PAC-SE55RA-E	All PUHZ
Remote Operation Adapter	PAC-SF40RM-E	All PUHZ

Part Name	Model Name	Application Name
L-shape Connection Pipe	PAC-SC84PI-E PAC-SC86PI-E	PKA-RP71 PKA-RP100
High Efficiency Filter	PAC-SE80KF-E PAC-SE81KF-E PAC-SE82KF-E	PCA-RP50 PCA-RP60/71/100 PCA-RP125/140
Wired Remote Controller Kit	PAR-21MAAT-E	PKA-RP
Wireless Remote Controller Kit	PAR-SL99B-E	PCA-RP
Power Supply Terminal Kit	PAC-SG96HR-E	All P Series
Drain Pump	PAC-SE90DM-E	PKA-RP
	PAC-SH20DM-E	PCA-RP50/60
	PAC-SH21DM-E	PCA-RP71
	PAC-SH22DM-E	PCA-RP100/125/140
"i-see Sensor" Corner Panel	PAC-SA1ME-E	PLA-RP
Air Outlet Shutter Plate	PAC-SH51SP-E	PLA-RP
HIgh Efficiency Filter Element	PAC-SH59KF-E	PLA-RP
Multi Function Casement	PAC-SH53TM-E	PLA-RP
Flange for Fresh Air Intake	PAC-SH65OF-E	PLA-RP
Space Panel	PAC-SH48AS-E	PLA-RP
Wiring Replace Kit	PAC-SH52HR-E	PLA-RP
Built-in Wireless Remote Control Receiver Kit	PAR-SA9FA-E	PLA-RP

Refrigerant Piping

Capacity	Between indoor & outdoor units		Pipe size OD / mm (in.)	Thickness (mm)
	Max. height difference / m	Max. piping length / m		
SUZ-KA25	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA35	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA50	30	30	Liquid: ø6.35	t 0.8
			Gas: ø12.7	t 0.8
SUZ-KA60	30	30	Liquid: ø6.35	t 0.8
			Gas: ø15.88	t 1.0
SUZ-KA71	30	30	Liquid: ø9.52	t 0.8
			Gas: ø15.88	t 1.0
PUHZ-RP71	30	50	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø15.88 (5 / 8)	t 1.0
PUHZ-RP100/125/140	30	75	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø15.88 (5 / 8)	t 1.0
PUHZ-BP100/125/140	30	50	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø15.88 (5 / 8)	t 1.0
PUHZ-BP200	30	70	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø25.4	t 1.0
PUHZ-BP250	30	70	Liquid: ø12.7	t 0.8
			Gas: ø25.4	t 1.0

Amount of Necessary Refrigerant [R410A: kg]

Piping length	Factory charged	Additional charged					Calculation
	7m	10m	15m	20m	25m	30m	
SUZ-KA25	0.9	0.15	0.3	0.45	—	—	Xg = 30g/m × (length-5)
SUZ-KA35	1.05	0.15	0.3	0.45	—	—	
SUZ-KA50	1.6	0.06	0.16	0.26	0.36	0.46	Xg = 20g/m × (length-7)
SUZ-KA60	1.8	0.06	0.16	0.26	0.36	0.46	
SUZ-KA71	2.0	0.165	0.44	0.715	0.99	1.265	Xg = 55g/m × (length-7)

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 75m
PUHZ-RP71	3.5	0.6	1.2	—	—
PUHZ-RP100/125/140	5.5	0.6	1.2	1.8	2.4

Piping length	Factory charged	Additional charged			
	10 - 20m	21 - 30m	31 - 40m	41 - 50m	51 - 60m
PUHZ-BP100	3.0	0.6	1.2	1.8	—
PUHZ-BP125	3.4	0.6	1.2	1.8	—
PUHZ-BP140	3.6	0.6	1.2	1.8	—

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 70m
PUHZ-BP200	10.5	0.9	1.8	2.7	3.6
PUHZ-BP250	10.5	1.2	2.4	3.6	4.8

*The above values apply in the case of 1:1 connections.

Certificate Number
49385

Certificate Number
EC97J1132

Mitsubishi Electric Shizuoka Works acquired ISO9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

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Revised publication, effective Jan. 2008.
Supersending publication L-179-7-C7654-C Aug. 2007.
Specifications subject to change without notice.

L-179-7-C7654-D 0801 Printed in Japan (NLP)